

# Contents

<b>K.-H. Chen, Y.-J. Shih and Y.-H. Huang</b>	Mineralization of citric acid wastewater by photo-electrochemical chlorine oxidation	1
<b>Y.-S. Choi, J.-J. Kim, M.-J. Kim, J. Son and G.-H. Kim</b>	Optimization of bioleaching conditions for metal removal from CCA-treated wood by using an unknown Polyporales sp. KUC8959	6
<b>D. Dutta, K. Wilson, W.D. Welsh, D. Nicholls, S. Kim and L. Cetin</b>	A new river system modelling tool for sustainable operational management of water resources	13
<b>P.W. Schuhmann, J.F. Casey, J.A. Horrocks and H.A. Oxenford</b>	Recreational SCUBA divers' willingness to pay for marine biodiversity in Barbados	29
<b>S.O. Hameed, K.A. Holzer, A.N. Doerr, J.H. Baty and M.W. Schwartz</b>	The value of a multi-faceted climate change vulnerability assessment to managing protected lands: Lessons from a case study in Point Reyes National Seashore	37
<b>J.C. Wasserman, S.R. Barros and G.B.A. Lima</b>	Planning dredging services in contaminated sediments for balanced environmental and investment costs	48
<b>B.-S. Lee and G.J.-Y. You</b>	An assessment of long-term overtopping risk and optimal termination time of dam under climate change	57
<b>A. Correia de Velosa and R.F. Pupo Nogueira</b>	2,4-Dichlorophenoxyacetic acid (2,4-D) degradation promoted by nanoparticulate zerovalent iron (nZVI) in aerobic suspensions	72
<b>W.H.W. Osman, S.R.S. Abdullah, A.B. Mohamad, A.A.H. Kadhum and R.A. Rahman</b>	Simultaneous removal of AOX and COD from real recycled paper wastewater using GAC-SBBR	80
<b>C. Piccirillo, S.I.A. Pereira, A.P.G.C. Marques, R.C. Pullar, D.M. Tobaldi, M.E. Pintado and P.M.L. Castro</b>	Bacteria immobilisation on hydroxyapatite surface for heavy metals removal	87
<b>A. Wilfart, J. Prudhomme, J.-P. Blancheton and J. Aubin</b>	LCA and emergy accounting of aquaculture systems: Towards ecological intensification	96
<b>K. Princé and F. Jiguet</b>	Ecological effectiveness of French grassland agri-environment schemes for farmland bird communities	110
<b>E. Toraldo, S. Saponaro, A. Careghini and E. Mariani</b>	Use of stabilized bottom ash for bound layers of road pavements	117
<b>J.L. Campbell and A.A. Ager</b>	Forest wildfire, fuel reduction treatments, and landscape carbon stocks: A sensitivity analysis	124
<b>S. Bilardi, P.S. Calabrò, S. Caré, N. Moraci and C. Noubactep</b>	Improving the sustainability of granular iron/pumice systems for water treatment	133
<b>I. Mekki, F. Jacob, S. Marlet and W. Ghazouani</b>	Management of groundwater resources in relation to oasis sustainability: The case of the Nefzawa region in Tunisia	142
<b>P. Avramidou, A. Evangelou and D. Komilis</b>	Use of municipal solid waste compost as a growth media for an energy plant (rapeseed)	152

*Continued from outside back cover*

<b>B. Komac, S. Kefi, P. Nuche, J. Escós and C.L. Alados</b>	Modeling shrub encroachment in subalpine grasslands under different environmental and management scenarios	160
<b>M. Pizzol, F. Møller and M. Thomsen</b>	External costs of atmospheric lead emissions from a waste-to-energy plant: A follow-up assessment of indirect exposure via topsoil ingestion	170
<b>M.H. Muhamad, S.R. Sheikh Abdullah, A.B. Mohamad, R. Abdul Rahman and A.A. Hasan Kadhum</b>	Application of response surface methodology (RSM) for optimisation of COD, NH <sub>3</sub> -N and 2,4-DCP removal from recycled paper wastewater in a pilot-scale granular activated carbon sequencing batch biofilm reactor (GAC-SBBR)	179
<b>N. Islam, R. Sadiq, M.J. Rodriguez and A. Francisque</b>	Evaluation of source water protection strategies: A fuzzy-based model	191
<b>M.A. Henrique, H.A. Silvério, W.P. Flauzino Neto and D. Pasquini</b>	Valorization of an agro-industrial waste, mango seed, by the extraction and characterization of its cellulose nanocrystals	202
<b>M.E. Olya, A. Pirkarami, M. Soleimani and M. Bahmaei</b>	Photoelectrocatalytic degradation of acid dye using Ni-TiO <sub>2</sub> with the energy supplied by solar cell: Mechanism and economical studies	210